

AD-A082 557

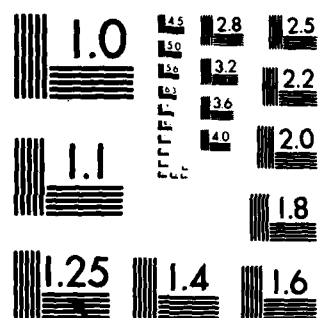
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
193048 GSRS, MISSILE NUMBERS 1069 AND 1123, ROUND NUMBERS V-90 --ETC(U)
DEC 79

UNCLASSIFIED

ERADCOM/ASL-DR-1097

NL

END
DATE
FILMED
5 80
DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ADA 082557

METEOROLOGICAL DATA REPORT

193048 GMS
Missile Nos. 1000, 1123
Round Nos. V-90, V-97
6 December 1979

by

White Sands Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

.....
ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

THIS DOCUMENT IS BEST QUALITY AVAILABLE.
THE COPY FURNISHED TO DDC CONTAINS A
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.

DDC FILE COPY

80 3 28 046

DISCLAIMER

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government endorsement or approval of commercial products or services referenced herein.

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1097	2. GOVT ACCESSION NO. (14) ERADCOM/ASL-DR-1097	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) (6) 19304B GSRS, Missile Numbers 1069, 1123, Round Numbers V-90, V-91, 6 December 1979.	5. TYPE OF REPORT & PERIOD COVERED	
7. AUTHOR(s) White Sands Meteorological Team	6. PERFORMING ORG. REPORT NUMBER	
9. PERFORMING ORGANIZATION NAME AND ADDRESS (9) Meteorological data rpt.	8. CONTRACT OR GRANT NUMBER(s) (16) (17) DA Task 1F665702D127.02	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS (12) (17)	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783	12. REPORT DATE (11) Dec 1979	
	13. NUMBER OF PAGES 17	
	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19304B GSRS, Missile Numbers 1069, 1123, Round Numbers V-90 and V-91 are presented in tabular form.		

CONTENTS

INTRODUCTION-----	1
DISCUSSION-----	1
LAUNCH AREA MAP-----	2
GENERAL AREA MAP-----	3
TABLES	
1. Surface Observation taken at 1434 MST at LC-33-----	4
2. Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 1434 MST-----	5
3. Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 1434 MST-----	5
4. LC-33 Pilot-Balloon-Measured Wind Data at 1434 MST-----	6
5. Nick Site Pilot-Balloon-Measured Wind Data at 1434 MST-----	7
6. WSD Significant Level Data at 1445 MST-----	8
7. WSD Upper Air Data at 1445 MST-----	9
8. WSD Mandatory Levels at 1445 MST-----	13

INTRODUCTION

193048 GSRS, Missile Numbers 1069 and 1123, Round Numbers V-90 and V-91, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1434 and 1434:05 MST, 06 December 1979. The scheduled launch times were 1430 and 1430:04 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RPTS T-9 pibal observation at:

SITE AND ALTITUDE

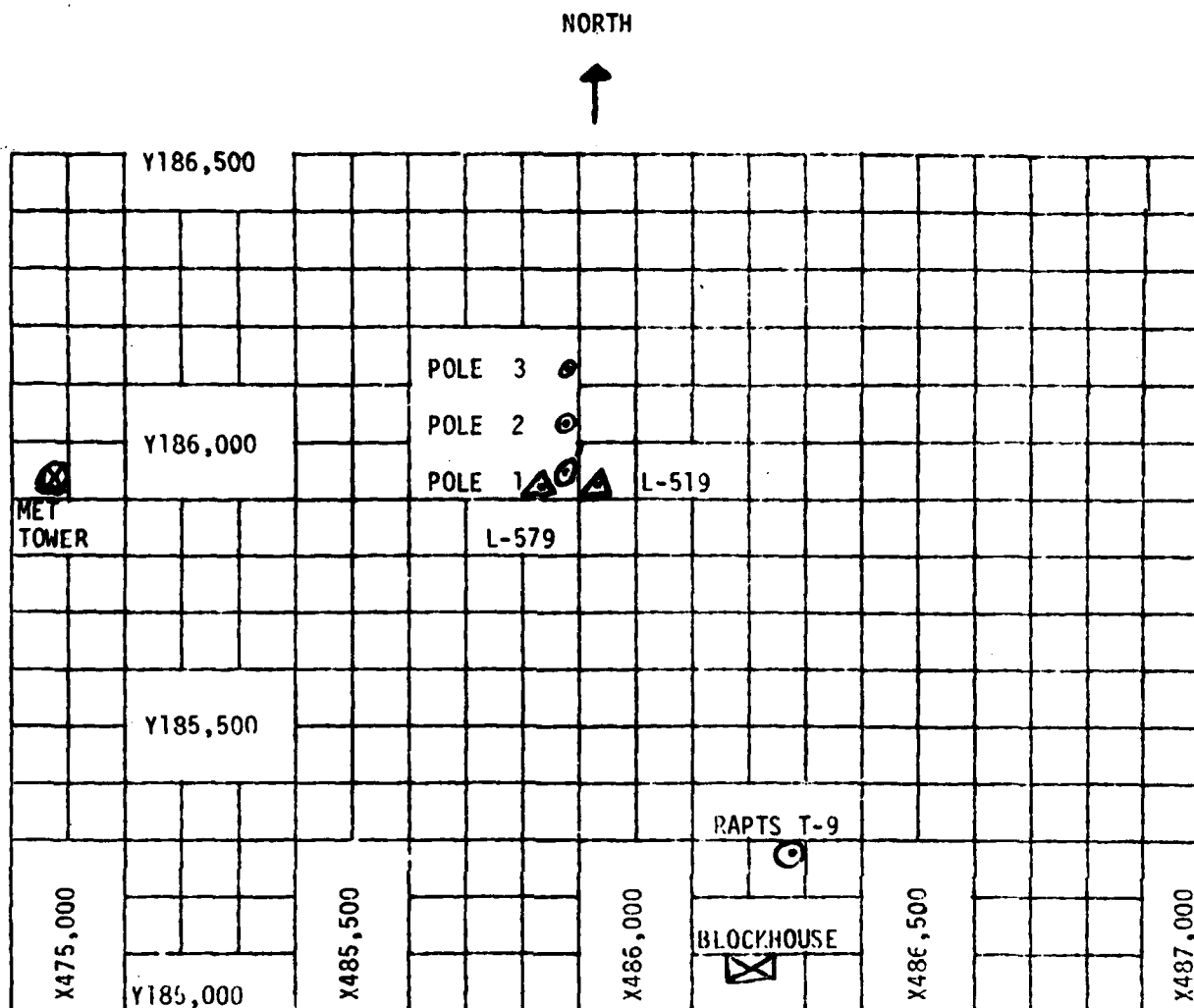
LC-33 2Km
NICK 2Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 78,000 feet in 500-foot increments.

SITE AND TIME

WSD 1445 MST

Accession For	
WFS	WSD
IBC	DAB
Unannounced	
Justification	
By	
Distribution	
Availability	
Dist	Availability Codes
A	Full and/or special
23	



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft.
 - (b) Pole #2 - 53.0 ft.
 - (c) Pole #3 - 83.6 ft.
3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

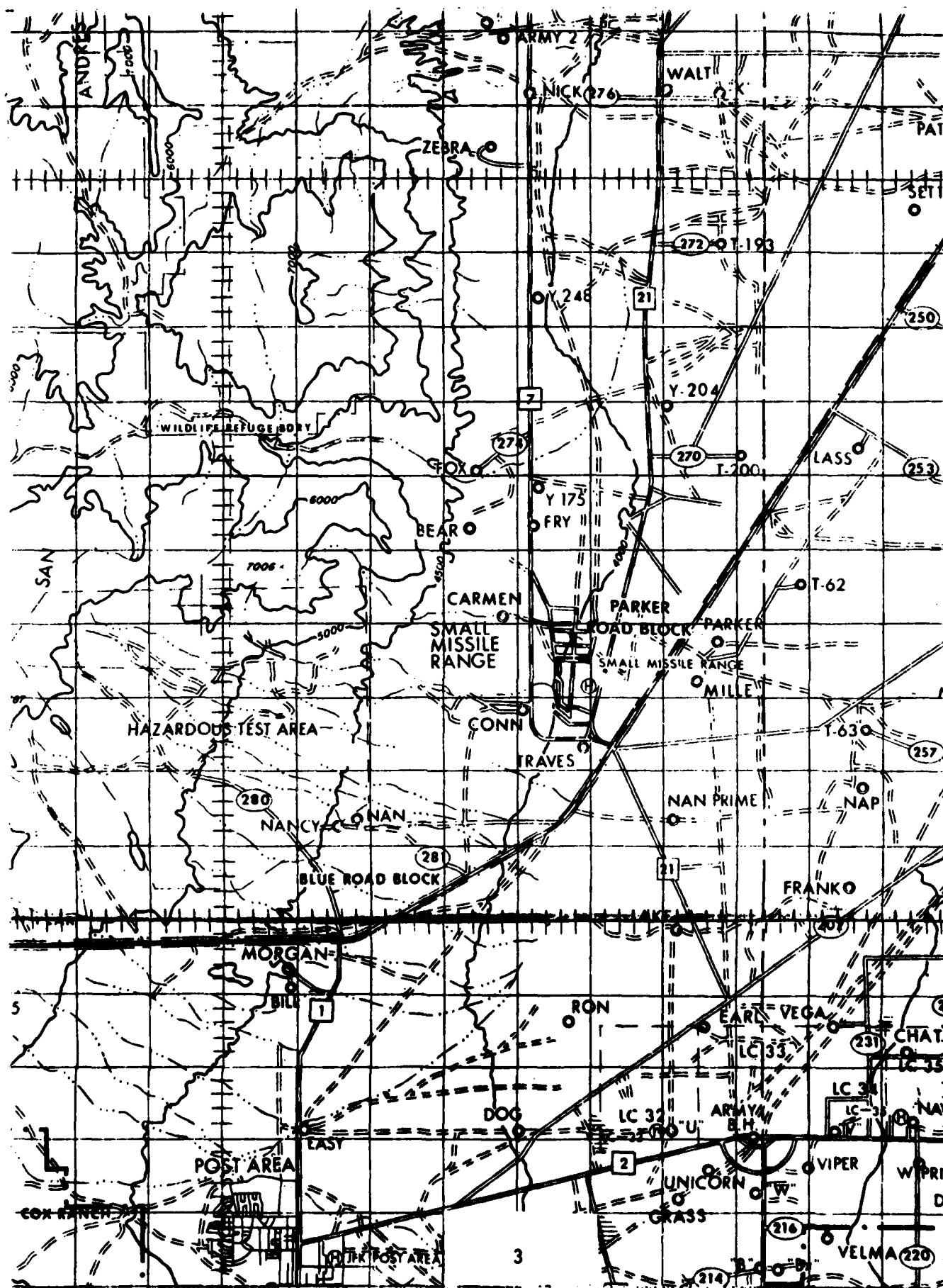


TABLE 1. Surface Observations taken at 1434 MST,
06 December 1979, at LC-33, 19304B GSRS,
Missile Numbers 1069 and 1123, Round
Numbers V-90 and V-91.

ELEVATION	3977.30	FT/MSL
PRESSURE	874.2	MBS
TEMPERATURE	14.7	°C
RELATIVE HUMIDITY	21	%
DEW POINT	7.2	°C
DENSITY	1054	GM/M ³
WIND SPEED	05	KTS
WIND DIRECTION	157	DEGREES
CLOUD COVER	4	CI

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	151	03	-30	143	03	-30	129	02
-20	149	04	-20	126	03	-20	130	02
-10	129	04	-10	136	02	-10	142	02
0.0	125	04	0.0	MISG	02	0.0	122	02
+10	114	04	+10	157	02	+10	116	03

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	152	04	-30	MISG	06
-20	136	03	-20	MISG	07
-10	136	04	-10	MISG	05
0.0	153	04	0.0	MISG	04
+10	161	04	+10	MISG	04

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	149	05	-30	161	05
-20	151	05	-20	162	04
-10	151	05	-10	156	04
0.0	155	04	0.0	157	04
+10	163	04	+10	157	04

PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM LC-33

DATE 06 December 1979

TIME 1434 MST

TRACKER

COORDINATES (WSTM)

X= 486,037.24

$$Y = 182,350.16$$

H= 3977.30

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGLXX OR FEET AGL.

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM NICK

DATE 06 December 1979

TIME 1434 MST

TRACKER

COORDINATES (WSTM)

$$X = 470,734.56$$
$$Y = 255,775.64$$
$$H = 4126.57$$

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

SIGNIFICANT LEVEL DATA

3400020507
WHITE SANDS

TABLE 6

STATION ALTITUDE 3989.00 FEET MSL
6 DEC. 79 1445 HRS MST
ASCENSION NO. 507

PRESSURE GEOMETRIC WILLIAMS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
874.4	14.0	25.0
871.4	14.9	19.0
850.0	12.4	19.0
762.0	4.4	25.0
742.6	4.1	24.0
735.0	6.5	21.0
700.0	6.2	21.0
604.8	.0	22.0
579.0	-2.3	22.0
555.2	-3.9	14.0
500.0	-10.6	16.0
407.0	-24.5	17.0
341.4	-34.7	18.0
300.0	-42.2	
250.0	-53.7	
239.8	-55.6	
215.8	-56.4	
200.0	-56.2	
194.2	-55.0	
167.2	-57.4	
158.6	-57.4	
150.0	-60.0	
146.4	-60.5	
123.4	-61.4	
109.4	-66.5	
100.0	-64.7	
93.4	-63.0	
84.4	-67.4	
73.0	-66.7	
70.0	-67.9	
56.0	-63.3	
44.4	-64.1	
34.4	-57.4	
30.0	-55.4	

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

UPPER AIR DATA
3400020507
WHITE SANDS

TABLE 7

STATION ALTITUDE 3989.00 FEET MSL
5 DEC. 79
1445 HRS MST
ASCENSION NO. 507

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	874.4	14.0	25.0	1059.0	660.7	0	0	1.000254
4000.0	874.1	14.1	24.3	1058.2	660.8	280.0	0	1.000254
4500.0	858.4	13.4	19.0	1042.3	659.9	280.0	1.4	1.000246
5000.0	842.9	11.8	19.5	1029.3	658.0	280.0	2.9	1.000242
5500.0	827.5	10.4	20.5	1015.3	658.4	280.0	4.3	1.000238
6000.0	812.3	9.1	21.5	1001.5	654.9	280.0	5.7	1.000235
6500.0	797.5	7.7	22.5	988.0	653.3	280.0	7.1	1.000231
7000.0	782.9	6.4	23.5	974.7	651.7	288.1	9.8	1.000228
7500.0	768.6	5.0	24.5	961.5	650.1	294.2	13.3	1.000225
8000.0	754.5	4.3	24.6	945.4	649.2	298.1	16.7	1.000221
8500.0	740.5	4.5	23.3	927.7	649.6	302.2	19.2	1.000216
9000.0	726.8	6.4	21.0	904.7	651.6	305.4	21.8	1.000211
9500.0	713.5	6.3	21.0	888.4	651.5	307.9	24.4	1.000208
10000.0	700.3	6.2	21.0	872.4	650.6	311.7	24.2	1.000204
10500.0	687.3	5.4	21.1	858.5	650.6	315.5	24.2	1.000201
11000.0	674.5	4.6	21.3	845.1	649.6	318.8	24.1	1.000197
11500.0	662.0	3.8	21.4	831.8	648.7	318.4	23.3	1.000194
12000.0	649.6	3.0	21.5	818.7	647.7	317.9	22.4	1.000190
12500.0	637.6	2.2	21.6	805.8	646.8	315.9	21.6	1.000187
13000.0	625.7	1.4	21.8	793.1	645.8	310.2	21.0	1.000184
13500.0	614.0	0.6	21.9	780.6	644.9	304.1	20.6	1.000181
14000.0	602.6	-0.2	22.0	768.4	643.9	298.9	20.9	1.000178
14500.0	591.2	-1.2	22.0	756.7	642.7	294.8	21.7	1.000175
15000.0	580.0	-2.2	22.0	745.2	641.5	291.4	22.4	1.000172
15500.0	569.0	-2.9	18.9	733.0	640.6	289.2	22.8	1.000168
16000.0	558.2	-3.6	15.5	721.0	639.8	287.1	23.3	1.000164
16500.0	547.5	-4.6	14.2	709.8	638.6	286.9	22.0	1.000161
17000.0	536.9	-5.9	14.6	698.5	637.0	287.1	20.3	1.000159
17500.0	526.5	-7.2	15.0	689.3	635.5	288.2	18.4	1.000156
18000.0	516.3	-8.5	15.4	679.3	633.9	293.6	16.2	1.000154
18500.0	506.3	-9.8	15.8	669.5	632.4	300.7	14.2	1.000152
19000.0	496.4	-11.0	16.0	659.6	630.8	310.0	12.4	1.000149
19500.0	486.4	-12.3	16.1	649.5	629.3	322.3	11.2	1.000147
20000.0	476.7	-13.6	16.2	639.5	627.7	336.9	10.6	1.000144
20500.0	467.1	-14.8	16.3	629.8	626.2	345.5	11.0	1.000142
21000.0	457.7	-16.1	16.4	620.2	624.7	344.0	12.2	1.000140
21500.0	448.5	-17.4	16.5	610.7	623.1	342.7	13.5	1.000138
22000.0	439.5	-18.6	16.6	601.4	621.6	342.8	14.1	1.000135
22500.0	430.7	-19.9	16.7	592.3	620.0	344.6	13.8	1.000133
23000.0	422.0	-21.2	16.8	583.3	618.5	346.5	13.5	1.000131

UPPER AIR DATA
3400020507
WHITE SANDS
TABLE 7 (CONT)

STATION ALTITUDE 3989.00 FEET MSL
6 DEC. 79 1445 HRS MST
ASCENSION NO. 507

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	413.5	-22.4	16.9	5/4.5	616.9	351.6	12.7	1.000129
24000.0	405.2	-23.7	16.9	565.8	615.4	4.1	11.5	1.000127
24500.0	396.9	-25.0	17.0	557.1	613.7	18.9	10.9	1.000125
25000.0	388.6	-26.4	17.2	548.4	612.0	31.4	11.1	1.000123
25500.0	380.4	-27.7	17.3	539.9	610.3	33.1	11.9	1.000121
26000.0	372.4	-29.1	17.5	531.5	608.6	34.6	12.7	1.000119
26500.0	364.5	-30.5	17.6	523.2	606.9	35.9	13.6	1.000117
27000.0	356.8	-31.9	17.7	515.1	605.2	32.9	14.4	1.000115
27500.0	349.5	-33.2	17.9	507.2	603.5	30.2	15.2	1.000113
28000.0	342.0	-34.6	18.0	499.3	601.7	27.8	16.0	1.000112
28500.0	334.5	-35.9	18.1	491.1	600.1	24.0	17.0	1.000110
29000.0	327.2	-37.2	18.2	483.0	598.5	19.4	18.2	1.000108
29500.0	320.0	-38.4	2.0**	475.0	596.8	15.4	19.5	1.000106
30000.0	313.1	-39.7	5.9**	467.2	595.2	12.3	20.9	1.000104
30500.0	306.2	-41.0	2.9**	459.5	593.6	11.3	22.1	1.000102
31000.0	299.5	-42.3		452.0	591.9	10.5	23.3	1.000101
31500.0	292.7	-43.8		444.5	590.0	9.7	24.5	1.000099
32000.0	286.0	-45.2		437.1	588.2	9.3	25.7	1.000097
32500.0	279.5	-46.7		429.9	586.3	9.4	27.0	1.000096
33000.0	273.2	-48.1		422.8	584.4	9.5	28.3	1.000094
33500.0	266.9	-49.6		415.9	582.5	9.5	29.6	1.000093
34000.0	260.9	-51.0		409.1	580.8	9.6	31.0	1.000091
34500.0	254.9	-52.5		402.4	578.7	10.1	32.4	1.000090
35000.0	249.1	-53.9		395.7	576.9	10.4	33.7	1.000088
35500.0	243.5	-55.4		388.4	575.5	10.6	35.1	1.000087
36000.0	237.5	-56.7		381.5	574.5	11.7	35.7	1.000085
36500.0	231.9	-58.0		374.6	574.1	12.7	36.2	1.000083
37000.0	226.5	-59.4		367.3	573.6	13.7	36.8	1.000081
37500.0	221.1	-60.8		360.9	573.6	14.7	37.3	1.000079
38000.0	215.9	-62.3		354.8	573.6	15.5	38.4	1.000077
38500.0	210.8	-63.8		348.8	573.6	16.2	39.7	1.000075
39000.0	205.8	-65.3		342.7	573.7	16.8	41.0	1.000074
39500.0	201.0	-66.8		336.8	573.8	17.4	42.2	1.000072
40000.0	196.5	-68.3		330.9	574.8	18.1	43.1	1.000070
40500.0	191.6	-69.8		325.0	575.1	18.9	43.6	1.000068
41000.0	187.1	-71.3		299.6	574.6	19.6	44.5	1.000067
41500.0	182.7	-72.8		293.1	574.1	20.3	45.2	1.000065
42000.0	178.4	-74.3		286.6	573.6	21.1	43.9	1.000064
42500.0	174.2	-75.8		280.4	573.1	22.0	41.6	1.000062
43000.0	170.1	-77.3		274.3	572.6	23.0	39.2	1.000061

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA
3400020507
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
6 DEC. 79 1445 HRS YST
ASCENSION NO. 507

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 7 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	166.0	-57.4		266.1	572.2	24.2	36.9	1.000060
44000.0	162.1	-57.4		261.8	572.2	22.6	35.7	1.000058
44500.0	159.3	-57.5		255.7	572.1	18.4	35.8	1.000057
45000.0	154.5	-58.6		250.9	570.6	14.3	36.1	1.000056
45500.0	150.8	-59.8		246.2	569.1	10.3	36.6	1.000055
46000.0	147.2	-60.4		241.0	568.3	7.7	36.8	1.000054
46500.0	143.6	-60.5		235.4	568.0	6.5	36.7	1.000052
47000.0	140.2	-60.7		229.9	567.8	5.2	36.6	1.000051
47500.0	136.8	-60.9		224.5	567.6	4.0	36.4	1.000050
48000.0	133.5	-61.0		219.2	567.5	5.3	33.2	1.000049
48500.0	130.3	-61.1		214.1	567.3	8.4	28.9	1.000048
49000.0	127.1	-61.2		209.0	567.1	12.5	24.6	1.000047
49500.0	124.1	-61.4		204.1	566.9	18.2	20.5	1.000045
50000.0	121.1	-62.2		199.9	565.3	15.2	19.0	1.000045
50500.0	118.1	-63.3		196.0	564.4	11.1	17.6	1.000044
51000.0	115.2	-64.3		192.2	563.0	6.4	16.4	1.000043
51500.0	112.4	-65.4		189.4	561.6	2.2	15.2	1.000042
52000.0	109.7	-66.4		184.6	560.2	359.6	14.0	1.000041
52500.0	107.0	-66.0		179.9	560.6	356.5	12.8	1.000040
53000.0	104.3	-65.5		175.1	561.3	353.3	11.3	1.000039
53500.0	101.8	-65.0		170.3	562.0	352.1	8.4	1.000038
54000.0	99.3	-64.6		165.8	562.6	349.8	5.5	1.000037
54500.0	96.8	-64.3		161.5	563.0	342.6	2.8	1.000036
55000.0	94.5	-63.9		157.3	563.5	328.0	2.0	1.000035
55500.0	92.1	-64.3		153.7	563.0	299.9	1.5	1.000034
56000.0	89.9	-65.2		150.5	561.8	266.1	1.4	1.000034
56500.0	87.7	-66.1		147.5	560.6	237.1	1.1	1.000033
57000.0	85.5	-66.9		144.4	559.4	205.1	1.2	1.000032
57500.0	83.4	-67.3		141.2	558.9	153.3	4.4	1.000031
58000.0	81.3	-67.2		137.6	559.1	145.8	11.5	1.000031
58500.0	79.3	-67.1		134.1	559.2	141.2	18.2	1.000030
59000.0	77.3	-67.0		130.7	559.4	123.4	15.3	1.000029
59500.0	75.4	-66.9		127.4	559.5	104.5	13.9	1.000028
60000.0	73.5	-66.7		124.1	559.7	66.0	13.0	1.000028
60500.0	71.7	-67.2		121.3	559.1	27.2	18.6	1.000027
61000.0	70.0	-67.9		118.7	558.1	12.2	26.4	1.000026
61500.0	68.2	-67.8		115.6	558.6	14.8	23.7	1.000026
62000.0	66.6	-67.2		112.6	559.1	17.9	21.1	1.000025
62500.0	64.9	-66.9		109.6	559.5	21.7	16.4	1.000024
63000.0	63.3	-66.5		106.8	560.0	28.6	11.2	1.000024

STATION ALTITUDE 3989.00 FEET MSL
6 DEC. 79 1445 HRS MST
ASCENSION NO. 507

UPPER AIR DATA
3400020507
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 7 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	61.8	-65.2			104.0	560.5	34.0	8.3	1.000023
64000.0	50.2	-65.8			101.2	560.9	23.7	9.2	1.000023
64500.0	58.8	-65.5			98.6	561.4	15.5	10.4	1.000022
65000.0	57.3	-65.2			96.0	561.8	11.5	9.5	1.000021
65500.0	55.9	-64.8			93.5	562.3	6.9	8.7	1.000021
66000.0	54.5	-64.5			91.0	562.8	1.6	7.4	1.000020
66500.0	53.2	-64.1			88.7	563.2	354.3	5.8	1.000020
67000.0	51.9	-63.8			86.3	563.7	341.6	4.3	1.000019
67500.0	50.6	-63.5			84.1	564.1	318.1	3.4	1.000019
68000.0	49.4	-63.4			82.0	564.2	287.6	3.4	1.000018
68500.0	48.2	-63.6			80.1	564.0	258.7	4.2	1.000018
69000.0	47.0	-63.7			78.2	563.8	236.4	6.0	1.000017
69500.0	45.8	-63.9			76.3	563.6	225.1	8.2	1.000017
70000.0	44.7	-64.0			74.5	563.3	215.8	8.1	1.000017
70500.0	43.7	-63.7			72.6	563.9	204.1	7.5	1.000016
71000.0	42.6	-63.0			70.6	564.7	193.2	7.4	1.000016
71500.0	41.5	-62.4			68.7	565.6	190.9	8.4	1.000015
72000.0	40.6	-61.7			66.9	566.4	189.0	9.4	1.000015
72500.0	39.6	-61.1			65.1	567.3	193.0	11.9	1.000014
73000.0	38.7	-60.5			63.3	568.2	205.7	15.1	1.000014
73500.0	37.7	-59.8			61.6	569.0	210.4	17.4	1.000014
74000.0	36.8	-59.2			60.0	569.9	214.1	17.3	1.000013
74500.0	35.9	-58.5			58.3	570.7	217.7	17.4	1.000013
75000.0	35.1	-57.9			56.8	571.6	227.1	13.5	1.000013
75500.0	34.2	-57.3			55.3	572.3	245.4	9.7	1.000012
76000.0	33.4	-57.0			53.9	572.8			1.000012
76500.0	32.6	-56.6			52.5	573.2			1.000012
77000.0	31.9	-56.3			51.2	573.7			1.000011
77500.0	31.1	-55.9			49.9	574.2			1.000011
78000.0	30.4	-55.6			48.7	574.8			1.000011

STATION ALTITUDE 3989.00 FEET MSL
6 DEC. 79
ASCENSION. NO. 507

MANDATORY LEVELS
3400020507
WHITE SANDS
TABLE 8

GEODETIC COORDINATES
32.40043 LAT UEG
106.37033 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FLEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
350.0	4765.	12.4	-10.5	19.	280.0	2.2	
300.0	6420.	8.0	-12.2	22.	280.0	6.9	
250.0	8152.	4.2	-14.3	24.	299.5	17.5	
200.0	10003.	6.2	-14.5	21.	311.8	24.2	
150.0	11924.	3.1	-16.8	22.	317.9	22.4	
100.0	14007.	-4.	-19.5	22.	298.0	21.0	
50.0	16362.	-4.3	-27.6	14.	286.8	22.5	
50.0	18796.	-10.6	-31.5	16.	306.1	13.0	
450.0	21422.	-17.2	-36.6	15.	342.9	13.3	
400.0	24279.	-24.5	-42.4	17.	13.0	11.0	
350.0	27415.	-33.1	-49.2	18.	30.5	15.1	
300.0	30902.	-42.2			10.6	23.1	
250.0	34848.	-53.7			10.3	33.5	
200.0	39508.	-56.2			17.5	42.5	
175.0	42297.	-56.7			21.8	42.1	
150.0	45480.	-60.0			9.6	36.7	
125.0	49208.	-61.3			16.0	21.9	
100.0	53683.	-64.7			350.8	6.6	
80.0	58134.	-67.1			142.2	15.7	
70.0	60779.	-67.9			12.0	26.6	
60.0	63835.	-65.8			23.1	9.3	
50.0	67420.	-63.3			305.5	3.3	
40.0	71981.	-61.4			192.2	10.4	
30.0	77940.	-55.4					

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.